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Bureau of Public Health Laboratories Test Catalogue

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Test Name	Analyte(s)	Section	Test Code	Spec Requirement	Unsatisfactory Specimens	Special specimen Preparation	Result Indicator	Additional information	TAT	BPHL - JAX	BPHL - Miami	BPHL - Tampa	Reference Lab	Notes	
Measles virus (MeV) (Rubeola), PCR	measles (MeV)	Virology	1755	Nasopharyngeal or throat swabs in viral transport medium; urine	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport medium. Ship between 2-8°C on gel ice packs immediately or frozen (≤-70°C) on dry ice.	Measles virus detected or no virus detected	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X		X			
Herpes simplex virus (HSV), PCR	herpes (HSV)	Virology	0834	CSF, brain biopsy, scab biopsy, or vesicular/pustular fluid collected on swab placed in viral transport media.	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Specimens can be stored at 2-8°C for up to 72 hours. Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	HSV-1 or HSV-2 detected or no virus detected		5 - 10 days	X		X			
Vaccinia Virus Detection, PCR		BT	9.7	Specimen types: (1) Dried vesicular fluid on a slide (touch prep) (2) Fresh biopsy (no formalin) (3) Skin or crust from roof of vesicle (4) Dry or wet swab of lesion NOTE: A dry swab is preferred for PCR. Wet swabs may be accepted if dry swabs are not available. Swabs with metal shafts are more difficult to break off and should not be used for sample collection. (5) Cellular material from tissue culture demonstrating cytopathic effect (Viral cell culture lysate). Specimens may be stored and shipped at 2-8°C, or ≤ -70°C if shipping is expected to occur more than 24 hours after collection.		Ship refrigerated on gel ice packs	Vaccinia virus detected or No virus detected		1 - 3 days	X	X	X			
Arbovirus Plaque Reduction Neutralization Test (PRNT) (38)	eastern equine encephalitis (EEE), St. Louis encephalitis (SLE), dengue (DEN), West Nile (WN), and Zika (ZIK)	Virology	1520, 1522, 1524, 1536	Single or Paired sera (3.1)	Insufficient volume. Not maintained at the appropriate temperature.	Serum: Vacutainer (red stopper) or serum separation tube. Ship between 2-8°C on gel ice packs. CSF: ship between 2-8°C on gel ice packs or frozen (≤-20°C) on dry ice.	Titer and interpretation or negative	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required.	7 - 21 days			X		internal order only (23)	Regarding multiple test codes (4)
Varicella zoster virus (VZV), Culture (Isolation)	varicella zoster (VZV)	Virology	1590	Swab of lesion placed in viral transport media.	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	VZV isolated or no virus isolated	Please confirm information with Testing lab.	10 - 21 days			X		internal order only (23)	
Arbovirus, Serology, IgG ELISA	eastern equine encephalitis (EEE), St. Louis encephalitis (SLE), dengue (DEN), West Nile (WN), chikungunya (CHIK), Zika (ZIK), and yellow fever (YF)	Virology	1533, 1690, 1692, 1694, 1698,	Single or Paired sera (3.1)	Insufficient volume. Not maintained at the appropriate temperature.	Serum: Vacutainer (red stopper) or serum separation tube. Ship between 2-8°C on gel ice packs. CSF: ship between 2-8°C on gel ice packs or frozen (≤-20°C) on dry ice.	Positive, Negative, Equivocal or Inconclusive	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required.	5 - 10 days	X		X		Regarding multiple test codes (4)	

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Varicella zoster virus (VZV), IgM	varicella zoster (VZV)	Virology	1760	Freshly drawn serum	Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for 48 hours. If specimen will be stored ≥ 48 hours, freeze at ≤ -20°C. Avoid multiple freeze/thaw cycles. Ship cold on gel ice packs. If frozen, ship on dry ice.	Positive, Negative or Equivocal	Requires prior arrangement with testing lab.	1 - 5 days	X					
Enterovirus (EV), Sequencing	enteroviruses (EV)	Virology	1810	Acute Feces (collected in sterile container, no preservatives); CSF; pericardial fluid; Nasal, throat or bronchial washing; rectal swab or throat swab in viral transport media.	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Ship between 2-8°C on gel ice packs or frozen (≤ -70°C) on dry ice.	Name of virus detected or no virus detected		7 - 30 days			X		internal order only (23)	
Hepatitis A, PCR	Hepatitis A virus (HAV)	Virology	1821	Single serum	Insufficient volume. Not maintained at the appropriate temperature.	Vacutainer (red stopper) or serum separator tube. Ship between 2-8°C on gel ice packs or frozen (≤ -20°C) on dry ice.	Hepatitis A virus detected or no virus detected		3 - 5 days			X			
HIV-1 NAT	HIV-1	Retrovirology	530	Collect a "pearl top" Plasma Preparation Tube (PPT) (preferred) or a "red/tiger top" Serum Separator Tube (SST) (acceptable).	1) Quantity not sufficient (QNS) 2) No ID on specimen 3) Mismatch tx/specimen 4) Grossly hemolyzed 5) Leaked in transit 6) Laboratory Accident 7) No specimen received	Centrifuge PPT or SST bloods within 8 hours of collection and freeze or refrigerate (4°C) until shipment. Submit centrifuged PPT or SST bloods via overnight delivery at room temperature, ice packs or frozen with dry ice. If for some reason a blood cannot be shipped via overnight delivery, the shipment must include sufficient dry ice to ensure frozen status at delivery. Patient ID and date of collection on the tube must match the accompanying lab requisition.	Laboratory interpretations: RNA Detected or RNA Not Detected or Invalid	If centrifugation is not possible at POC, whole bloods collected in red tops, purple tops, SSTs or PPTs are acceptable if they can be delivered to the laboratory by next day, Monday - Friday (same day for Friday blood draws).	1 - 3 days	X	X				
Enteric Culture (6)		Microbiology	1900	Stool for enteric pathogens	Specimen submitted in wrong transport medium, Name on specimen tube and requisition do NOT match. Specimen damaged or leaked in transit, Specimen received >7 days after collection	Specimens must be submitted in Modified Cary-Blair derived or type of transport medium only within 96 hours of collection. Rectal swabs from infants are acceptable if less than 48 hours old. Raw stool submitted for testing must be received within 24 hours of collection. Transport may be at room temperature or at 2-8 °C. Specimens may be refrigerated at 2-8 °C if not being shipped within 24 to 48 hours. If multiple stool cultures are requested, sample collections must NOT be collected during the same 24 hour period. Specimens that do not meet this requirement will not be cultured and reported as unsatisfactory.	Positive for pathogens or Negative	Transport media may be requested from the testing lab. Prior arrangement with lab is required for Campylobacter	3 days	X	X	X			
Throat (Beta Strep) Culture		Microbiology	2100	Throat or nasopharyngeal swab.		Specimens of the throat or pharynx received on swabs in a sterile cotton top tube or in a transport medium. Specimens should be shipped at room temperature within 48 hours of collection.	Presence or absence of beta-hemolytic Streptococci including group A.	Corynebacterium diphtheriae - will be sent to BPHL - Jacksonville for identification. Please confirm information with Testing lab.	2 days	X	X	X			

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Aerobic Isolate Identification		Microbiology	2300	Pure isolates - any aerobic bacterial isolate -- from a clinically relevant source.	No patient identification on specimen, Name on specimen tube and requisition do NOT match, Specimen damaged or leaked in transit, Specimen not viable	Specimens must be submitted on a Heart Infusion Slant or suitable plating media. Isolates should be forwarded at room temperature to the lab within 24-48 hours of isolation.	Identification and serogrouping is performed for Haemophilus influenzae, Neisseria meningitidis, STEC, Salmonella (for epi purposes), Shigella, and Vibrio cholera	All <i>Neisseria meningitidis</i> isolates are sent to CDC Enhanced Surveillance Project.	7-28 days	X	X	X			
Aerobic Isolate Identification (for Diphtheria) - (26)		Microbiology	2300	Throat Swab (Deep throat specimen and/or piece of membrane if present) or isolate	non-viable or "dry" swab ; in addition to the conditions listed under Aerobic Isolate Identification	Specimens of the throat or pharynx received on swabs in a sterile cotton top tube or in a transport medium. Specimens should be shipped at room temperature within 48 hours of collection.	Negative for C. diphtheriae or C. diphtheriae isolated (pos)	Diphtheria culture requests must be reviewed and approved by the regional/state epidemiologist prior to submitting swab or isolate to BPHL-Jax. Epi arranges for antitoxin to be shipped for administration to the patient. (27)	7-28 days	X					
Anaerobic Isolate Identification		Microbiology	2400	Anaerobic bacterial isolate, any source		Anaerobic thioglycollate broth in screw capped tube taped shut.	Identification of anaerobes	Please confirm information with Testing lab.	7 - 30 days	X					
Anaerobic culture		Microbiology	2500			Specimens must be submitted on media with an anaerobic atmosphere. Isolates should be forwarded to the lab within 24-48 hours of isolation.	Please check with BPHL-Jacksonville for information	Please check with testing lab for testing and submission information.	3 - 7 days	X					
Aerobic Culture		Microbiology	2600	Any clinical specimen (except anaerobe, stool or throat)	Specimen received >4 days after collection, No patient identification on specimen, Name on specimen tube and requisition do NOT match, Specimen damaged or leaked in transit	Swab or material in a sterile transport system.	Identification of pathogens.	This does not include cultures for stool or throat.		X	X	X			
B. pertussis: Culture/PCR		Microbiology	2700	Collect Amies E-swab LQ PerNasal NYLON NASOPHARYNGEAL SWABS. Insert NP swab in E-swab transport medium and ship in cooler (cushion R-L tube) to the laboratory.	This assay has been validated for nasal respiratory specimens. Other specimen types may be tested by special request from the state of Florida epidemiologists, even if they have not been validated for routine testing.	Ship transport media cold (NOT FROZEN).	Positive or negative of culture results <i>B. pertussis</i> . Note: Culture alone have low sensitivity compared to PCR.	Transport media (Amies E-Swab) may be requested from the BPHL Microbiology lab. Use only nylon tipped swabs with flexible shafts. Please confirm information with Testing lab.	1 day	X				There is no restriction for provider to submit primary testing to BPHL. There is also no requirement for testing lab to submit POSITIVE sample to BPHL for confirmation.	

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TB Culture (solid culture on LJ and liquid culture by BACTEC MGIT 960)		Mycobact eriology	3100	Sputum or aerosol lavage (5 ml minimum), stool, urine, and any source (13) Processed specimens are acceptable.	Formalin fixed or paraffin-embedded tissues. No patient identification on specimen. No specimen observed in specimen tube, specimen damaged or leaked entirely in transit. Blood specimens collected into EDTA tubes or coagulated blood is unacceptable. Gastric aspirates that have not been neutralized are not acceptable.	> 5 ml of unprocessed specimen or 0.5 - 1 ml of processed specimen in 50 ml sterile conical tube, shipped in double container. Gastric Lavage specimens must be neutralized with 100 mg of sodium carbonate if the time between collection and processing exceeds 4 hours.. Specimens other than blood should be stored refrigerated until shipped. Blood must be stored and shipped at room temperature. Urine should be shipped refrigerated. All other specimens may be shipped ambient or cold, using a cool-pak.	Positive: All positive cultures will be stained for AFB and speciated by PRA, DNA Probe and/or hsp65 DNA Sequencing. Negative: No AFB Cultured. Contaminated: Both solid and liquid cultures contaminated.	Cultures positive for Mycobacteria tuberculosis complex (MTBC) will be reflexed to Hain test and Drug Susceptibility Testing if from new patient or 60days since previous DST results. All specimens other than blood will have AFB Smear performed.	6 weeks	X				See Notes tab under Mycobacteriology.	
real-time PCR (rtPCR) Nucleic Acid Amplification Test (NAAT) for TB IS6110 sequence.		Mycobact eriology	3140	Respiratory specimens (5mL minimum) or CSF. Processed specimens are acceptable.	Any non-respiratory specimens require prior approval from the TB Physician Network. Formalin fixed or paraffin-embedded tissues. No patient identification on specimen tube, No specimen observed in specimen tube, specimen damaged or leaked entirely in transit. Note: this test cannot be performed on blood specimens.	> 5 ml of unprocessed specimen or 0.5 - 1 ml of processed specimen in 50 ml sterile conical tube, shipped in double container. Gastric Lavage specimens must be neutralized with 100 mg of sodium carbonate if the time between collection and processing exceeds 4 hours. This test cannot be performed on blood specimens. Specimens should be stored refrigerated until time of shipment. Urine should be shipped refrigerated. Specimens may be shipped ambient or cold, using a cool-pak.	Positive: Positive for MTBC DNA. Neg: Negative for MTBC DNA. Indeterminate: Inconclusive for MTBC DNA.	Positive specimens are automatically tested by HAIN test. All specimens submitted as just 3140 (NAAT) will also have smear and culture performed.	2 days	X			Paraffin embedded tissue can be sent to CDC for NAAT testing. Requires prior approval from the TB Physician Network.	[Formerly NAAT done by MTD until October 2012. MTD still listed on some forms.]	
AFB Culture for identification (CFI)		Mycobact eriology	3200	Solid or liquid TB cultures	Non-pure cultures. Cultures sent on petri dishes. No patient identification on specimen, specimen damaged in transit.	Follow shipping regulations for specimen sendouts. Prefer that cultures are shipped in metal cans as primary container to avoid breakage. Ship ambient.	Cultures will be specialized by PRA and/or DNA Probe or sequencing. If MTBC identified on a new patient, will reflex to Hain test and Drug Susceptibility testing.	First MTBC isolates on patients will also be sent to Michigan Public Health Laboratory for genotyping.	3-6 weeks	X					
TB Drug Susceptibilities; by MIC (Minimum Inhibitory Concentration) utilizing Sensititre MYCOTB method (Trek Diagnostic Systems)		Mycobact eriology	3300	Pure culture identified as M. tb complex, growth on solid media preferred but liquid cultures are acceptable. Do not send Culture on Petri Dishes.	Non-pure cultures. Cultures sent on petri dishes or damaged in transit. No patient identification on specimen.	Follow shipping regulations for specimen sendouts. Prefer that cultures are shipped in metal cans as primary container to avoid breakage. Ship ambient. Specify on the requisition that the isolate had been identified as M. tb complex, otherwise AFB Culture for Identification may be ordered.	Susceptible/Resistant for each drug tested.	First MTBC isolates on patients will also be sent to Michigan Public Health Laboratory for genotyping.	3 - 10 weeks (3 weeks once sufficient growth on solid media)	X			CDC can perform additional molecular and conventional Drug Susceptibility testing.		
Syphilis Confirmation TP-PA (automatic reflex only)		Serology	0245	5 ml clotted blood or 2 ml serum preferred. Store 2-8C if testing is done within 5 days. If plasma, test within 2 days.	Grossly hemolyzed, lipemic, contaminated samples, QNS		Reactive, Inconclusive or Nonreactive	Automatic reflex if Syphilis Screen RPR and Syphilis Treponemal assay is discrepant or upon request. Not orderable - call servicing lab if needed.		X	X				

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Syphilis Screen - RPR	Reagin antibodies	Serology	0250	5 ml clotted blood or 3 ml serum gold or tiger top serum separator tubes preferred; plasma acceptable. Recommend ship 2-8C for next day delivery (preferred) or within 5 days from collection. CSF cannot be tested with this method.	Grossly hemolyzed, hyperlipemic and contaminated samples, QNS. Specimens received >8 days from collection date.	Optimum storage temperature is 2-8C. Samples that require longer than five (5) days storage must be removed from the red cells and stored at -20C or below until testing.	Reactive with titer or Nonreactive	Reactive specimens are reflexed to Confirmatory Syphilis Treponemal Assay automatically.	2 days	X	X	X		For non-reactive results, submitter may request the lab to add the Syphilis Treponemal assay if appropriate. If the patient is pregnant, the Syphilis Treponemal assay is added regardless of the RPR result. Contact your servicing laboratory.
Hepatitis B Surface Antigen (HBsAg)	Hepatitis B Surface Antigen	Hepatitis	0300	Serum (tiger top SST) preferred or plasma (lithium hep SST, di- and tri-potassium EDTA or sodium hep) acceptable. 2 ml serum preferred (5-6 ml whole blood) within . Recommend ship 2-8C within 6 days from collection date. (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma. Specimens received RT (15-30) >2 days or 2-8C >6 days from collection date.	Specimens may be stored on or off the clot, red blood cells, or separator gel for up to 24 hrs at RT (15-30C) or up to 6 days at 2-8C. If testing will be delayed more than 6 days, remove serum or plasma from the clot, red blood cells or separator gel and store at -20C or colder.	Nonreactive specimen is considered negative for HBsAg. Initially reactive specimens require retesting in duplicate. If both results are nonreactive, the specimen is considered negative for HBsAg. If one or both are reactive, specimen is considered repeatedly reactive and needs confirmation with Test 0305 HBsAg Confirmatory assay (reflex test). The result of the confirmatory assay, if done, is reported separately.	HBsAg screen reactives are reflexed to Hepatitis B Surface Antigen Confirmatory test.		X	X	X		May be ordered as a panel or as a stand-alone test
Hepatitis B Surface Antibody (anti-HBs) Quantitative	Hepatitis B Surface antibody qualitative and quantitative	Hepatitis	0310	Serum (tiger top SST) preferred or plasma (lithium hep SST, dipotassium EDTA or sodium hep) acceptable. 2 ml serum preferred (5-6 ml whole blood). Recommend ship 2-8C within 7 days from collection date. (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma. Specimens received > 7 days from collection date.	Store serum/plasma at RT (21-22C) for ≤ 3 days or 2-8C for ≤ 7 days. If testing will be delayed more than 3 days for specimens stored at RT or more than 7 days for specimens stored at 2-8C, remove serum or plasma from the clot, red blood cells, or separator gel and store at -20C or colder. No more than three freeze/thaw cycles.	Nonreactive <8.00 mIU/mL ; Grayzone ≥8 to <12.0 mIU/mL; Reactive ≥12.0 mIU/mL to 1000 mIU/mL. If greater, report as >1000 mIU/mL.	Nonreactive: individual is considered not immune to HBV infection. Grayzone: the immune status of the individual should be further assessed by considering other factors, such as clinical status, follow-up testing, assoc. risk factors, and the use of additional diagnostic information. Reactive: Individual is considered immune to HBV infection.		X	X	X		May be ordered as a panel or as a stand-alone test
Hepatitis B Core total Antibody (HBcAb)	Hepatitis B Core antibody (IgG + IgM)	Hepatitis	0320	Serum (tiger top SST) preferred or plasma (lithium hep SST, dipotassium EDTA or sodium hep) acceptable. 2 ml serum preferred (5-6 ml whole blood). Recommend ship 2-8C within 7 days from collection date. (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma. Specimens received > 7 days from collection date.	Store serum/plasma at RT (23-30C) for ≤ 3 days or 2-8C for ≤ 7 days, -20C or colder >7 days. Specimens may be stored on or off the clot, red blood cells or separator gel. Remove serum or plasma from the clot, red blood cells, or separator gel if stored longer than the maximum room temperature or 2-8C storage time and store frozen at -20C or colder. Avoid more than 3 freeze/thaw cycles.	Nonreactive or Reactive.	Nonreactive: Indicates that anti-HBc antibodies were not detected in the sample; it is possible that the individual is not infected with HBV. Reactive: Indicates presumptive evidence of HBV; anti-HBc antibodies were detected in the sample which suggests either on-going or previous HBV infection.		X	X	X		May be ordered as a panel or as a stand-alone test

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Hepatitis C Antibody Screen (IgG + IgM anti-HCV)	Hepatitis C Antibody (IgG + IgM)	Hepatitis	0330	Serum (tiger top SST) preferred, plasma (lithium heparin plasma SST, sodium heparin, dipotassium EDTA) acceptable. 2 ml serum preferred (5-6 ml whole blood). Recommend ship 2-8C within 7 days from collection date. (see special specimen preparation)	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma. Specimens received > 7 days from collection date.	Specimens may be stored on or off the clot, red blood cells, or separator gel for up to 3 days at RT (20-23C) or up to 7 days at 2-8C. If testing will be delayed more than 3 day for specimens stored at RT or more than 7 days for specimens stored at 2-8c, remove serum or plasma from the clot, red blood cells or separator gel and store at -20C or colder.	Reactive, Equivocal, Nonreactive	Reactive: Presumptive evidence of antibodies to HCV. Requires HCV NAAT. Equivocal: Antibodies to HCV may or may not be present; test same specimen with HCV NAAT. Nonreactive: Antibodies to HCV not detected; does not exclude the possibility of exposure to HCV. Reactive and equivocal specimens will reflex automatically to HCV RNA		X	X	X		May be ordered as a panel or as a stand-alone test. This test will reflex to HCV RNA, if HCV reactive or equivocal.
Hepatitis B Profile (10)	Hepatitis B Surface Antigen, Hepatitis B Surface antibody qual and quant, Hepatitis B Core antibody (IgG + IgM)	Hepatitis	0340	See requirements of individual tests	See requirements of individual tests	See requirements of individual tests	See individual tests	See individual tests		X	X	X		Panel composed of 3 Hepatitis B tests.
Hepatitis A IgG (anti-HAV) CMIA	Hepatitis A IgG	Hepatitis	0352	Serum (tiger top SST) preferred; NO PLASMA. 2 ml serum (5-6 ml whole blood). Recommend ship 2-8C within 8 days from collection date. (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma. Specimens received RT (15-30C) >4 days or 2-8C >8 days from collection date.	Serum may be stored on or off the clot or separator gel for up to 4 days at room temperature or up to 8 days at 2-8C. If testing will be delayed more than 8 days, remove serum from the clot, or separator gel and store at -20C or colder. Avoid more than 3 freeze/thaw cycles.	Reactive or Nonreactive	Reactive: IgG anti-HAV detected. Nonreactive: IgG Anti-HAV not detected.		X	X	X		May be ordered as a panel or as a stand-alone test
Chronic Hepatitis Profile (2)	Hepatitis B Surface Antigen, Hepatitis B Surface antibody qual and quant, Hepatitis B Core antibody (IgG + IgM)	Hepatitis	0380	See requirements of individual tests	See requirements of individual tests	See requirements of individual tests	See individual tests	See individual tests		X	X			Panel composed of 3 Hepatitis B tests, Hepatitis C and Hepatitis A (5 tests)
Amplified Chlamydia and Gonorrhea (TMA)	rRNA from <i>Chlamydia trachomatis</i> (CT) and/or <i>Neisseria gonorrhoeae</i> (GC)	Serology	0430	Unisex swab - urethral or cervical. Multitest swab - vaginal, rectal, throat. Urine - male and female urine.	Urines: liquid level must fall between two black fill lines. Swabs: No swab, two swabs, a cleaning swab or wrong swab for specimen site or wrong swab for collection kit. All swabs if not broken at score line. Conjunctiva specimens cannot be tested.	Unisex or Multitest swabs stable 60 days at 2-30C or freeze at -20C to -70C up to 12 months after collection. Urine - good for 30 days 2C up to 30C.	CT Positive or Negative, GC Positive or Negative. GC Indeterminate or CT Indeterminate: Due to equivocal results (cannot tell if negative or positive) OR invalid (did not return any result twice). Please submit a new sample	Collection kits may be requested from your servicing laboratory.	72 HRS	X (10)	X (10)	X (10)		

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HIV-1 / HIV-2 antigen/antibody (Aq/Ab) screening (Immunoassay - IA) and supplemental IA (39)	HIV-1 HIV-2	Retrovirology	0500, 0510	Collect a "pearl top" Plasma Preparation Tube (PPT) (preferred) or a "red/tiger top" Serum Separator Tube (SST) (acceptable).	1) Quantity not sufficient (QNS) 2) No ID on specimen 3) Mismatch hx/specimen 4) Grossly hemolyzed 5) Leaked in transit 6) Laboratory Accident 7) No specimen received 8) Bloods rec'd >7 days post-collection	Centrifuge PPT or SST bloods within 8 hours of collection and refrigerate (4°C) until shipment. Submit centrifuged PPT or SST bloods via overnight delivery at room temperature, ice packs or frozen with dry ice. If for some reason a blood cannot be shipped via overnight delivery, the shipment must include sufficient dry ice to ensure frozen status at delivery. Patient ID and date of collection on the tube must match the accompanying lab requisition.	Laboratory interpretations: Positive or Negative	If centrifugation is not possible at POC, whole bloods collected in red tops, purple tops, SSTs or PPTs are acceptable if they can be delivered to the laboratory by next day, Monday - Friday (same day for Friday blood draws).	2 - 3 days	X	X				
HIV-1, EIA (OraSure screening), and HIV-1 supplemental IA (40)	HIV-1	Retrovirology	0520	OraSure® collection devices.	1) Quantity not sufficient (QNS) 2) No ID on specimen 3) Mismatch hx/specimen 4) Leaked in transit 5) OraSure device expired 6) Laboratory Accident 7) No specimen received 8) OraSure specimen >21 days post-collection 9) Client <13 years old	Follow manufacturer's instruction and transporting of OraSure® samples. (POC instructions)	Laboratory interpretations: Positive or Negative or Inconclusive	OraSure Device must be tested within 21 days of collection. If BPHLM receives OraSure specimens they are forwarded to BPHLJ for testing, shipped overnight on cold packs or RT.	2 - 3 days	X					
CD4/CD8 count/ratio (1)		Retrovirology	0540	Requires one EDTA (lavender top) or pearl top PPT vacutainer of whole blood.	1) Wrong specimen tube rec'd 2) Whole blood rec'd > 48 post-collection. 3) Clotted whole blood.	CD4/CD8 count/ratio (1) Blood must be received in the laboratory by next business day. Please ship prepaid by overnight delivery at room temperature as a "diagnostic specimen". Ship blood to the laboratory Monday through Thursday only. If the work week includes a holiday, please call the laboratory for collection and shipping instructions.	Absolute CD4 & CD8 counts will be reported as well as CD4/CD8 ratio	Blood must be received in the Jacksonville laboratory within 24 hrs. after collection.	1 - 2 days	X					
HIV-1, Viral Load - Quantitative RNA	HIV-1	Retrovirology	0560	Requires plasma sample collected via EDTA (lavender top) or PPT (pearl top).	1) Specimen not centrifuged. 2) Wrong specimen tube rec'd.	View link for detail. (14) If available send plasma(s) on approx. 2-3 kg dry ice, do not allow dry ice to come in contact with specimens. However, if dry ice is not available, specimens may be sent on 3-4 foam refrigerant packs in styrofoam cooler. Please label cooler on the outside with Viral Load or VL load. Do not allow specimens to thaw before shipping.. Shipment must be sent overnight priority.	Quantitative results expressed in RNA copies/ml blood.		2 - 3 days	x					

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Test Name	Analyte(s)	Section	Test Code	Spec Requirement	Unsatisfactory Specimens	Special specimen Preparation	Result Indicator	Additional information	TAT	BPHL - JAX	BPHL - Miami	BPHL - Tampa	Reference Lab	Notes	
HIV-1 Genotyping (drug resistance testing)	HIV-1	Retrovirology	0570	Requires plasma sample collected via EDTA (lavender top) or PPT (pearl top).	1) Viral load <1,000 RNA copies/ml. 2) Specimen not centrifuged. 3) Wrong specimen tube received.	View link for detail. (22) If available send plasma(s) on approximately 2 - 3 kg of dry ice, do not allow dry ice to come in contact with specimens, however if dry ice is not available, specimens may be sent on 3 - 4 foam refrigerant packs in a styrofoam cooler. Please label cooler on the outside with Genotyping. Do not allow specimens to thaw, before shipping. Shipment must be sent priority overnight.	Current anti-retroviral drug resistance report (mutation report optional)	HIV-1 viral load must be > 2000 RNA copies/ml blood.	5 - 6 days	x					
Gonorrhea smear		Microbiology	0600	Male only - smear of urethral exudate (gram stained or not)		slide shipped in cardboard or polystyrene container	Positive: Intracellular diplococci resembling gonococcus observed. Negative	Gonorrhea culture is preferred	1 day	X	X				
Gonorrhoea Culture		Microbiology	0700	Male - Urethral exudate, rectal or pharyngeal specimen Female - Cervical, rectal or pharyngeal specimen Specimen, collected from the proper site, is inoculated onto culture media (Martin-Lewis) .	Specimen received >4 days after collection, No CO2 pill, Transport bag not sealed, Plate dried out, cracked, or expired, Name on specimen tube and requisition do NOT match	Inoculated media should be pre-incubated for 24 - 48 hours in 10% CO2 environment (Candle jar or ziplock bag with CO2 tablet) before shipping to lab. Indicate incubation time. Deliver to Laboratory as soon as possible. If shipping by mail please ship by	Positive: Gram negative, oxidase positive diplococci characteristic of Neisseria gonorrhoeae cultured. Negative		2 days	X	X	X			
Human adenovirus (HAdV) Typing, PCR	human adenovirus (HAdV) types 3, 4, 7, 11, 14, 16, and 21	Virology	9071, 9072, 9073, 9074, 9075, 9076, 9077	Throat or nasopharyngeal swab in viral transport media; nasal aspirate/wash; bronchoalveolar lavage; tracheal aspirate; sputum	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Store and ship between 2-8°C on gel ice packs.	Name of virus detected or no virus detected		7 - 14 days	X		X		internal order only (23)	Regarding multiple test codes (4)
Herpes simplex virus (HSV) Type 1/2, IgG	herpes (HSV)	Virology	0838	Freshly drawn serum	Specimens received at 2-8°C >7 days after collection: For storage >7 days, specimen must be frozen at ≤ 20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, Negative or Equivocal		7 - 14 day	X					
Herpes Simplex virus (HSV), Culture (Isolation)	herpes (HSV)	Virology	0900	Swab of lesion placed in viral transport media.	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	HSV-1 or HSV-2 isolated or no virus isolated		6 - 21 days			X			
Varicella zoster virus (VZV), PCR	varicella zoster (VZV)	Virology	0920	Vesicular swab (cotton or Dacron) or roof/crust of vesicle in a sterile container (DO NOT USE TRANSPORT MEDIA).	Swabs with calcium alginate or with wooden shafts. Not maintained at the appropriate temperature.	Sterile container without media or preservative. Dacron swab without transport media. Ship at ambient temperature. DO NOT REFRIGERATE OR FREEZE.	VZV detected or no virus detected.	Requires prior approval from CHD and notification to the testing lab.	3 - 5 days	X	X	X			

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Parasite, Blood		Parasitology	1200	Thick and thin blood smears made immediately upon drawing patient. Use lavender top (EDTA) vacutainer tube with whole blood. Please submit the original observed slides.		Slides and Blood drawn in EDTA preservative (lavender top) vacutainer. Must provide patient travel history.	Positive (includes species) or no parasites found	Requires prior arrangement with testing lab. Place labeled dried blood smears (stained and unstained) in a slide box, with grooves to separate the slides.Pack the slide box inside another box, cushioned so that it is protected from breakage. Place labeled tube of anticoagulated blood in enough absorbent material to contain any leakage, and place in a sealed plastic bag or 50 ml screw cap centrifuge tube.Pack this bag or container in a box, cushioned so that it is protected from breakage. Blood samples is required for shipment to CDC for PCR testing.		X	X				
Toxoplasma, IgG (EIA)	Toxoplasma	Virology	1300	Freshly drawn serum (for exposure status)	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, Negative or Equivocal		7 - 14 days	X					
Arbovirus Serology, IgM ELISA	eastern equine encephalitis (EEE) , St. Louis encephalitis (SLE) , dengue , West Nile (WN) , chikungunya (CHIK) , Zika (ZIK) , and yellow fever (YF)	Virology	1500, 1502, 1506, 1508, 1509, 1534, 1539	CSF, and/or acute serum For Dengue only: acute serum (less than 5 days post onset of symptoms). For Zika only: acute serum (less than 14 days post onset of symptoms).	Insufficient volume. Not maintained at the appropriate temperature.	Serum: Vacutainer (red stopper) or serum separation tube. Ship between 2-8°C on gel ice packs. CSF: ship between 2-8°C on gel ice packs or frozen (≤-20°C) on dry ice.	Positive, Negative, Equivocal or Inconclusive	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required.	3 - 10 days	X		X		Regarding multiple test codes (4)	
Cytomegalovirus (CMV), IgG	cytomegalovirus (CMV)	Virology	1540	Freshly drawn serum (for exposure status)	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, negative or equivocal		7 - 10 days	X					

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Zika virus (ZIKV)	Zika (ZIK)	Virology	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	X	X	X		See Notes tab under Arbovirus PCR (29). Please submit samples related to travel cases to commercial labs. Submit Suspect local cases or positive labs to the State Lab for confirmation.	
Varicella zoster virus (VZV), IgG	varicella zoster (VZV)	Virology	1570	Freshly drawn serum (for exposure status/immune status)	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, Negative or Equivocal		7 - 14 days	X					
Influenza virus, Culture (Isolation)	influenza	Virology	1620	Throat, nasopharyngeal, or nasal swab in viral transport media; nasal aspirate; nasal wash; bronchoalveolar lavage; bronchial wash; tracheal aspirate; sputum; lung tissue.	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	Influenza A or Influenza B isolated or no virus isolated	Please confirm information with testing lab.	5 - 10 days			X		internal order only (23).	
Respiratory virus, Culture (Isolation)	respiratory syncytial virus (RSV), human parainfluenza-1 (HPIV-1), human parainfluenza-2 (HPIV-2), human parainfluenza-3 (HPIV-3), adenovirus (AdV), human metapneumovirus (hMPV), rhinovirus (RV), enterovirus (EV), cytomegalovirus (CMV), and influenza viruses	Virology	1620	Throat or nasopharyngeal swab in viral transport media; nasal aspirate/wash; bronchoalveolar lavage; tracheal aspirate; sputum	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	Name of virus isolated or no virus isolated	Please confirm information with Testing lab.	10 - 21 days			X		internal order only (23).	
Arbovirus Culture (Isolation) (36)	eastern equine encephalitis (EEE), St. Louis encephalitis (SLE), dengue, West Nile (WNV), chikungunya (CHIK), Zika (ZIK), yellow fever (YF), and Mayaro (MAY)	Virology	1670	CSF, brain tissue or serum.	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	Name of virus isolated or no virus isolated	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required.	14 - 28 days			X		internal order only (23).	

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Arbovirus, PCR (29)	eastern equine encephalitis (EEE), St. Louis encephalitis (SLE), dengue (DEN), West Nile (WN), chikungunya (CHIK), Zika (ZIK), yellow fever (YF), and Mayaro (MAY)	Virology	1532, 1550, 1682, 1686, 1688, 1689	Acute serum (less than 5 days post onset of symptoms) cold or frozen. For EEE, SLE, and WN CSF or biopsy or autopsy brain tissue, frozen. For Triplex (detects dengue, chikungunya, and Zika in one test), additional specimen types are acceptable. Acute serum, whole blood in EDTA, CSF, urine (1-2 ml), or amniotic fluid (less than 14 days post onset of symptoms or exposure). Whole blood in EDTA, CSF, urine, and amniotic fluid may only be tested alongside a patient-matched serum specimen. Amniotic fluid and urine are only approved for Zika.	Insufficient volume. Not maintained at the appropriate temperature.	CSF, tissue, serum, urine, and amniotic fluid: Ship between 2-8°C on gel ice packs or frozen (≤70°C) on dry ice, Whole blood in EDTA: ship between 2-8°C on gel ice packs.	No virus detected or name of virus detected	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required. Requires prior arrangement with testing lab.	3 - 10 days	X	X	X		Regarding multiple test codes (4)	
Ehrlichia, IgG (IFA)	Ehrlichia	Virology	1710	Paired Sera collected at least 3 weeks apart or single convalescent serum plus appropriate exposure and symptom history.		Vacutainer (red stopper) or serum separator tube. Store and ship at 2-8°C	Titer and interpretation or no antibody detected.	Date of onset, tick exposure, clinical symptoms, and recent travel history is required. Requires prior approval from CHD and notification to the testing lab.	7 - 14 days	X					
Rocky Mountain Spotted Fever (Rickettsia), IgG (IFA)	Rocky Mountain Spotted Fever (Rickettsia)	Virology	1716	Paired Sera collected at least 3 weeks apart or single convalescent serum plus appropriate exposure and symptom history.		Vacutainer (red stopper) or serum separator tube. Store and ship at 2-8°C	Titer and interpretation or no antibody detected.	Date of onset, tick exposure, clinical symptoms, and recent travel history is required. Requires prior approval from CHD and notification to the testing lab.	7 - 14 days	X					
Rubella virus, IgM	rubella	Virology	1720	Single acute serum collected 3 - 5 days post onset	test temporarily unavailable	Vacutainer (red stopper) or serum separator tube.	Positive, Negative or Equivocal	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X					
Measles virus (Rubeola), IgG	measles	Virology	1740	Freshly drawn serum (for immune status)	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, Negative, or Equivocal		7 - 14 days	X					
Measles virus (MeV) (Rubeola), IgM	measles (MeV)	Virology	1750	Single serum or plasma		vacutainer (red stopper) or serum separator tube.	Positive, Negative, or Equivocal	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X					

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Respiratory virus, PCR	respiratory syncytial virus (RSV), human parainfluenza-1 (HPIV-1), human parainfluenza-2 (HPIV-2), human parainfluenza-3 (HPIV-3), adenovirus (AdV), human metapneumovirus (hMPV), rhinovirus (RV), coronaviruses (seasonal CoV HKU1, CoV NL63, CoV 229E, CoV OC43), enterovirus (EV), influenza viruses	Virology	1810, 9025, 9040, 9100, 9225, 9260, 9290, 9320, 9360, 9540	Throat or nasopharyngeal swab in viral transport media; nasal aspirate/wash; bronchoalveolar lavage; tracheal aspirate; sputum	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Ship between 2-8°C on gel ice packs or frozen (-5-70°C) on dry ice.	Name of virus detected or no virus detected	The test cannot be ordered by outside providers- it is added when specimens participating in specific surveillance programs arrive at the lab	7 - 14 days	X		X		Regarding multiple test codes (4)
Enterovirus Culture (EV) (Isolation) (7)	enterovirus (EV)	Virology	1800	Acute Feces (collected in sterile container, no preservatives); CSF; pericardial fluid; Nasal, throat or bronchial washing; rectal swab or throat swab in viral transport media.	Insufficient volume. Not maintained at the appropriate temperature. Visibly contaminated with bacteria or fungi.	Ship between 2-8°C on gel ice packs or frozen (-5-70°C) on dry ice.	Name of virus isolated or no virus isolated.		7 - 21 days			X		Internal order only (23)
Enterovirus (EV), PCR (30)	enterovirus (EV)	Virology	1810	Acute Feces (collected in sterile container, no preservatives); CSF; pericardial fluid; Nasal, throat or bronchial washing; rectal swab or throat swab in viral transport media.	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Specimens can be stored at 2-8°C for up to 72 hours. Ship between 2-8°C on gel ice packs or frozen (-5-70°C) on dry ice.	Enterovirus detected or No virus detected		5 - 10 days	X		X		
Norovirus (NoV), PCR (21)	norovirus (NoV)	Virology	1830	Stool or vomitus (up to 3 to 5 specimens from community outbreak).	Insufficient volume. Not maintained at the appropriate temperature.	Sterile container without media or preservative. Ship between 2-8°C on gel ice packs or frozen (-5-70°C) on dry ice.	Norovirus genogroup detected or no virus detected	Notify lab prior to shipment.	3 - 5 days	X		X		
CNS Panel: CSF (Arbovirus IgM ELISA & Enterovirus PCR/culture (35)	eastern equine encephalitis (EEE), St. Louis encephalitis (SLE), dengue (DENV), West Nile (WNV), chikungunya (CHIK), Zika (ZIK), yellow fever (YF), and enterovirus (EV)	Virology	1870	1 - 2 ml CSF	Insufficient volume. Not maintained at the appropriate temperature.	Ship CSF between 2-8°C on gel ice packs or frozen (-5-20°C) on dry ice.	Positive or negative or equivocal and no virus isolated/ detected, or name of virus isolated/detected.	Please confirm information with Testing lab. Date of onset, mosquito exposure, clinical symptoms, and recent travel history is required. The testing lab decides on the test to perform upon review of patient history.	7 - 21 days			X		
AFB smear (Fluorescent staining by Auramine-O method. Light microscopy by Ziehl-Neelsen.)		Mycobact-eriology	3100, 3110	Multiple specimen types acceptable. Sputum or other respiratory sample (5 ml minimum). Processed specimens are acceptable. AFB smears cannot be done on blood specimens. Air-Dried smears may be submitted - for AFB Smear only (No AFB culture).	Formalin fixed or paraffin-embedded tissues. No patient identification on specimen tube. No specimen observed in specimen container. Specimen damaged or leaked entirely in transit. NOTE: AFB Smear cannot be done on blood specimens.	> 5 ml of unprocessed specimen or 0.5 - 1 ml of processed specimen in 50 ml sterile conical tube, shipped in double container. Air-dried smears should be placed in a slide holder during shipment, store and ship ambient. AFB Smear cannot be done on blood specimens. Store specimens refrigerated until time of shipment. Specimens can be shipped ambient or cold, using a cool-pak.	Smear: Positive (1+, 2+, 3+, 4+) with quantitation per unit area. Negative: No AFB seen.	Positive smear specimens will be reflexed to rPCR for all new patients or when >6 months since last rPCR test. (Cannot be done if only air-dried smear submitted).	1 day	X				

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Enterovirus D68 (2014 EV-D68), PCR	enterovirus D68 (EV-D68)	Virology	1811	Acute Feces (collected in sterile container, no preservatives); CSF; pericardial fluid; rectal swab, throat swab, or nasopharyngeal swab in viral transport media. Serum can be tested only along side respiratory sample.	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature. Serum without respiratory sample.	Dacron swab in viral transport media. Specimens can be stored at 2-8°C for up to 72 hours. Ship between 2-8°C on gel ice packs or frozen (-5-70°C) on dry ice.	EV-D68 detected or no virus detected		7 - 14 days	X		X		internal order only (23)	
Botulism testing		Microbiology		Clinical specimen or Food specimen				Please confirm information with Testing lab. Requires prior arrangement with Epidemiology Headquarters. (Clinician must call 850-245-4401)		X	X	X	CDC	No testing is performed in the laboratory. The Laboratory will only provide Epidemiology contact information. Epidemiology will take it from there.	
Chikungunya virus (CHIKV)	chikungunya	Virology	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	X	X	X		Please submit samples related to travel cases to commercial labs. Submit Suspect local cases or positive labs to the State Lab for confirmation.	
Dengue virus (DENV)	dengue (DEN)	Virology	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	Please refer to the various Arbovirus tests available.	X	X	X		Please submit samples related to travel cases to commercial labs. Submit Suspect local cases or positive labs to the State Lab for confirmation.	
Dengue virus (DENV) Typing, PCR	dengue virus-1 (DENV-1), dengue virus-2 (DENV-2), dengue virus-3 (DENV-3), dengue virus-4 (DENV-4)	Virology	1681	Acute serum, whole blood in EDTA, or CSF (less than 14 days post onset of symptoms or exposure).	Insufficient volume. Not maintained at the appropriate temperature.	CSF and serum: Ship between 2-8°C on gel ice packs or frozen (-5-20°C) on dry ice. Whole blood in EDTA: ship between 2-8°C on gel ice packs.	No virus detected or name of virus detected	Please confirm information with Testing lab. Requires prior arrangement with testing lab.	7 - 14 days	X		X		internal order only (23)	
DNA probe (Accuprobe/Gen-Probe)		Mycobacteriology		Test can be run on positive cultures when identification indeterminate by other methods.	NA - The test cannot be ordered by providers outside of the BPHL. The BPHL lab determines if the test is warranted or not dependent on the patient history, results of other tests etc.		As indicated by phenotypic growth, can test for MTBC, MAC, M.gordonae, and M.kansasii.	If indeterminate, will reflex to DNA probe and/or sequencing.	1 day after growth on liquid and/or solid culture.	X				internal order only (23)	

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EBOLA (33)		BT		Two (2) lavender-top blood tubes (4mL) Specimen types: (1) Blood specimens: (a) Whole blood (b) Serum (c) Plasma (2) Urine NOTE: Urine should not be the sole specimen tested from a patient. If a urine specimen from a patient is tested, it should be tested alongside a blood specimen from the patient. (1) Whole blood can be stored for up to 7 days at 2-8°C prior to extraction. (2) Serum, plasma and urine may be frozen if a delay in extraction is anticipated. Specimens should be frozen at ≤ -70°C, if available. (3) RNA must be stored at 2-8°C once extracted. If PCR cannot be performed the same day as specimen extraction, RNA must be stored at -70°C or lower.	any other specimen type. Incomplete labeling or documentation.	Two (2) lavender-top blood tubes (4mL)		Travel and exposure history must be submitted with specimen. Requires prior arrangement with testing lab and Epidemiology. Prior approval from Dr. Blackmore, in consultation with CDC.		X	X	X			
GeneXpert MTD/RIF (Cepheid)		Mycobact eriology		Respiratory specimens only.	Formalin fixed or paraffin-embedded tissues.		Presence or absence of MTB DNA, and Presence, absence, or indeterminate for RIF target DNA (Rifampin resistance). Indeterminate: Invalid, Error, or No Result.	Test only run when requested by Florida TB Physicians.	< 1 day	X				internal order only (23)	
GenoType MTBDRplus (Hain Lifesciences)		Mycobact eriology		Test will be run on all PCR positive specimens and cultures received for identification and/or DST.	Formalin fixed or paraffin-embedded tissues.		TB 'wild type' (susceptible) no mutation present. TB with missing wild type sequences and/or present mutations in regions of rpoB gene (for Rifampin resistance), and katG and inhA genes (for Isoniazid resistance). No TUB band present.	Sequencing can be performed to confirm presence or absence of specific mutations.	1-4 days after PCR testing.	X				internal order only (23)	
Hepatitis B Surface Antigen Confirmatory test CMIA - reflex only	Hepatitis B Surface antigen confirmatory	Hepatitis	0305	Serum (tiger top SST) preferred or plasma (lithium hep SST, di- and tri-potassium EDTA or sodium hep) acceptable. 2 ml serum preferred (5-6 ml whole blood). Recommend ship 2-8C (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, heat-inactivated, pooled and contaminated samples. Cadaveric specimens and fluids other than human serum or plasma.	Specimens may be stored on or off the clot, red blood cells, or separator gel for up to 24 hrs at RT (15-30C) or up to 6 days at 2-8C. If testing will be delayed more than 6 days, remove serum or plasma from the clot, red blood cells or separator gel and store at -20C or colder.	Not confirmed or Confirmed Positive	Not orderable		X				internal order only (23)	

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Test Name	Analyte(s)	Section	Test Code	Spec Requirement	Unsatisfactory Specimens	Special specimen Preparation	Result Indicator	Additional information	TAT	BPHL - JAX	BPHL - Miami	BPHL - Tampa	Reference Lab	Notes	
Hepatitis C RNA NAT (TMA)	Hepatitis C RNA qualitative and viral load	Hepatitis	0390	2 ml serum/plasma if stand-alone order or automatic reflex if needed for Chronic Hepatitis Panel and Hepatitis C Antibody Screen orders. Storage RT 1 day, 2-8 ≤5 days, -20C or colder ≤60 days	Specimens not shipped or stored within specifications	If stand alone order, ship at 2-8 up to 4 days. If it will be more than 4 days before the specimen reaches the laboratory, ship on dry ice.	Qualitative: Positive or Negative. If positive, viral load is reported in Log10 IU/mL and IU/mL.			X				With Chronic Hep Panel, this is a reflex test. May be ordered as a stand alone test.	
HIV-1, Western Blot, dried blood spots		Retrovirology		dried blood spots.			Positive, Negative or Indeterminate for HIV-1 antibodies.	Requires special permission from CDC NHBS project coordinator	4 - 5 days		X				
MERS coronavirus, (MERS CoV) (28)	MERS coronavirus (MERS CoV)	Virology	9789	Sputum or other lower respiratory specimen (priority), nasopharyngeal swab in viral transport media, throat swab in viral transport media, serum (red or tiger top tube)	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport medium. Specimens can be stored at 2-8°C for up to 72 hours. Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	MERS coronavirus detected or no virus detected	Please confirm information with Testing lab and Epidemiology. Requires prior arrangement with Epidemiology.	1 - 5 days	X	X	X			
Miscellaneous parasitology		Parasitology		PVA specimens, Acid Fast slides for Cyclospora, etc		contact testing lab for specimen collection details.	Positive or No Parasites found.			X	X	X			
Mumps virus, IgG	mumps	Virology	1660	Freshly drawn serum (for immune status)	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive, Negative or Equivocal		7 - 14 days	X					
Mumps virus, IgM	mumps	Virology	1664	Single serum	test temporarily unavailable	Vacutainer (red stopper) or serum separator tube.	Positive, Negative, or Equivocal	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X					
Mumps virus, PCR	mumps	Virology	1668	Buccal swab (preferred) or oropharyngeal in viral transport media; Urine; nasopharyngeal aspirate	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport medium. Ship between 2-8°C on gel ice packs immediately or frozen (≤-70°C) on dry ice.	Mumps virus detected or no virus detected	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X		X			
Newborn Screening tests (25)		Newborn Screening		Collect specimen on a DOH Form 677 by sticking baby's heel with a lancet, obtaining a homogenous sample. Apply blood to one side, must soak through filter paper.		Air dry flat for 3 hours and mail within 24 hours to the Newborn Screening Program. Remove all copies and fold biohazard shield over dried specimen before mailing.	Presumptive Positive, Borderline, Within Normal Limits			X					

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Ova & Parasites, Intestinal		Parasitology		Preserved specimens (those in Formalin, Total Fix, PVA-fixative) may be examined at the convenience of the microscopist and may be left on the table or counter. There is no need to refrigerate these specimens; in fact, if PVA-fixed specimens are refrigerated, they harden and become useless. Unpreserved specimens, on the other hand, should be examined immediately upon receipt, or stored in such a way that organisms will be maintained in an identifiable condition. Storage might be in incubator or preservative added to maintain organism identification. Shipment to laboratory should be within 24 hours of collection.	Unacceptable specimens are those that are not sufficient for testing or unpreserved stools are older than 24 hours. At least 1 ml of liquid stool is needed for microscopy.	5% or 10% formalin preservative. Provide travel history if available.	Positive (includes species) or no parasites found. All specimens are checked for Cryptosporidium and Cyclospora using acid fast stain.	For specimen collection kit, please contact testing laboratory.		X	X	X			
pncA sequencing		Mycobacteriology		Test will be run on all positive cultures requiring Drug Susceptibility Testing.	NA - The test cannot be ordered by providers outside of the BPHL. The BPHL lab determines if the test is warranted or not dependent on the patient history, results of other tests etc.		Positive: Will report mutations detected and whether they are known to be associated with PZA resistance. (Comments will be added when pncA resistance mutations indicate wildtype for M. bovis.) Negative: No pncA mutation detected. Cannot rule out PZA resistance.		3-7 days once culture positive	X			CDC	internal order only (23)	
PRA (PCR Restriction Analysis)		Mycobacteriology		Test will be run on all positive cultures.	NA - The test cannot be ordered by providers outside of the BPHL. The BPHL lab determines if the test is warranted or not dependent on the patient history, results of other tests etc.		Positive will identify Mycobacteria species and some fungal species. Indeterminate if PRA pattern indistinguishable.	If indeterminate, will reflex to DNA probe and/or sequencing.	1 day after growth on liquid and/or solid culture.	X			NTM can be sent to National Jewish for DST.	internal order only (23)	
Rabies, Animal (32)		Rabies		Small animal: decapitated head Large animal: brain with brain stem	mutilated, decomposed, grossly contaminated with bacteria	Specimen must be double bagged and shipped in leak - proof container with cold packs. Use clear bags to double bag specimens.	Positive, Negative, Unsatisfactory or Inconclusive	Specimens must be submitted through the County Animal Care and Control Office.	1 - 3 days	X	X	X		Rabies Service Area Map	
Rabies, Animal (32)		Rabies		Brain			Positive, Negative, Unsatisfactory or Inconclusive	Please confirm information with Testing lab. Requires prior arrangement with local CHD Epidemiology before contacting BPHL.		X	X	X	CDC	Rabies Service Area Map	

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Test Name	Analyte(s)	Section	Test Code	Spec Requirement	Unsatisfactory Specimens	Special specimen Preparation	Result Indicator	Additional information	TAT	BPHL - JAX	BPHL - Miami	BPHL - Tampa	Reference Lab	Notes
Rubella virus, IgG Index value	rubella	Virology	1721	Freshly drawn serum	Specimens received at 2-8°C >7 days after collection. For storage >7 days, specimen must be frozen at ≤-20°C and received frozen on dry ice. Specimens containing anticoagulants or preservatives. Hemolyzed, lipemic, or bacterially contaminated serum.	Store at room temperature ≤ 8 hours. May be stored between 2-8°C for a maximum of seven days, including the time for shipping and lab receipt. We recommend sending within four days. Ship cold on ice packs.	Positive with index value, negative, or equivocal		7 - 14 days	X				
Rubella, Screen EIA	Rubella IgG (pregnancy screen)	serology	4000	Serum (tiger top SST) preferred or plasma (lithium hep SST, di- and tri-potassium EDTA or sodium hep) acceptable. 2 ml serum preferred (5-6 ml whole blood). Recommend ship 2-8C within two days from collection (see special specimen preparation).	Grossly hemolyzed, hyperlipemic, highly icteric and contaminated samples; specimens received >2 days from collection date.	Store 2-8C if tested within 2 days, -20C if kept for longer periods.	Immune or Non-immune or Indeterminate	Test for Immune status for pregnant women		X				TEST DONE IN SEROLOGY. Titer test is done in Virology
Salmonella Typing		Microbiology	2000	Pure isolates of Salmonella received from hospital laboratories or branch laboratories. Stool specimens that will be processed through the Enteric bench to determine isolation of Salmonella. Shipment should be at room temperature or at 2-8°C and received within 96 hours of isolation or collection.		Nutrient agar slant or appropriate slanted tube media.	Serotyping by whole genome sequencing. Traditional serogrouping and typing done upon request from Epi.	Isolates are shipped to Jacksonville for further serotyping by whole genome sequencing (WGS).		X	X	X		
Select agents testing by Real time PCR, conventional bacteriological methods, TRF, DFA etc (15)		BT								X	X	X		
Respiratory Syncytial virus (RSV) Typing, PCR	Respiratory Syncytial virus (RSV) types A and B	Virology	9362	Throat or nasopharyngeal swab in viral transport media; nasal aspirate/wash; bronchoalveolar lavage; tracheal aspirate; sputum	Swabs with calcium alginate or cotton tips or with wooden shafts. Insufficient volume. Not maintained at the appropriate temperature.	Dacron swab in viral transport media. Specimens can be stored at 2-8°C for up to 72 hours. Ship between 2-8°C on gel ice packs or frozen (≤-70°C) on dry ice.	Name of virus detected or no virus detected		7 - 14 days	X		X		internal order only (23)
Shiga Toxin Producing E. coli (STEC) Culture		Microbiology	2302	Specimens positive for O157 and/or Shiga Toxin Positive	Negative Shiga Toxin for non-O157 specimens	Pure isolates sent on nutrient agar slant, GN broth. Stools sent raw or in Cary Blair media.	Isolated or not isolated	Cultures will also be run for PCR to determine detection of eae, ehx A, stx 1 and stx 2. Test Code: 2301	5 to 7 days	X				
Carbapenemase Production		Microbiology	2900	Pure isolate with resistance markers		Pure isolates sent on nutrient agar slant or appropriate media.	Positive or negative	mCIM method	3 to 5 days	X				
Gene Xpert PCR		Microbiology	2905	Specimens must be submitted on a Heart Infusion Slant or suitable plating media. Isolates should be forwarded at room temperature to the lab within 24-48 hours of isolation.	Specimens will be rejected if unpure or non-viable.	Pure isolates sent on nutrient agar slant or appropriate media.	Detected or not detected	KPC, NDM, IMP, VIM and OXA-48	3 to 5 days	X				
Aerobic Culture - Carbapenemase Isolate		Microbiology	2910	Pure isolate with resistance markers		Pure isolates sent on nutrient agar slant or appropriate media.	Isolated or not isolated	Organism ID by MALDI-TOF	3 to 5 days	X				

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Rubella virus, PCR	rubella	Virology	1724	Nasopharyngeal or throat swabs in viral transport media; nasopharyngeal aspirates; urine	Swabs with calcium alginate or cotton tips or with wooden shafts.	Dacron swab in viral transport medium. Ship between 2-8°C on gel ice packs immediately or frozen (-5-70°C) on dry ice.	rubella virus detected or no virus detected	Requires prior approval from CHD and notification to the testing lab.	1 - 5 days	X					
COVID-19 Hologic Panther systems (TMA)	SARS-CoV-2 (coronavirus)	Virology		Upper and lower respiratory specimens (such as nasopharyngeal, oropharyngeal and nasal swabs, sputum, lower respiratory tract aspirates, bronchoalveolar lavage, and nasopharyngeal wash/aspirate or nasal aspirate). Swabs in VTM/UTM, sterile saline, or Amies media. Aptima Multi-test Swab Specimen Collection Kits and the Hologic Direct Load Collection Kits are for the collection of only oropharyngeal and nasal swabs.	Calcium alginate swabs and cotton swabs with wooden shafts are unacceptable. DNA/RNA Shield, Man-tac, and MTM are unacceptable media. Specimens received outside the required temperature range are unacceptable. Specimens received using Aptima and Hologic collection kits with swabs other than those included in the kits or swabs not broken at indicated score line are unacceptable.	Specimens in Aptima Multi-test Transport Tubes and Hologic Direct Load Tubes should be shipped between 2-8° C on gel ice packs. Specimens in VTM/UTM can be stored at 2-8° C for up to 72 hours. Longer than 72 hours, store at ≤70° C. Ship on gel ice packs. If frozen, ship on dry ice.	Detected or not detected		2 days						
Cyanide		Chemical Threat		Store 2°-8° C	Insufficient specimen	Ship on cold packs in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Volatile Organic Compounds		Chemical Threat		Store 2°-8° C	Insufficient specimen	Ship on cold packs in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Tetramine		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Blood Metals		Chemical Threat		Store 2°-8° C	Insufficient specimen	Ship on cold packs in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Urine Metals		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
CVAA		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Nitrogen Mustard		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Sulfur Mustard (SBMTE)		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Sulfur Mustard (SBMSE)		Chemical Threat		Store 2°-8° C	Insufficient specimen	Ship on cold packs in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Abrine and Ricinine		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
HNPA		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Organophosphorus Nerve Agents in Urine		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							
Organophosphorus Nerve Agents in Serum		Chemical Threat		Store - 40° C	Insufficient specimen	Ship on on dry ice in insulated box		Available only through prior arrangement. Please call 904-791-1569							

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Syphilis Treponemat assay CMIA - reflex only	T. pallidum antibodies (IgG + IgM)	Serology	0242	6-8 ml whole blood or 3 ml serum collected in SST (tiger tops) preferred. (automatic reflex)	Grossly hemolyzed, hyperlipemic, heat lysis, contaminated and contaminated samples.	Serum separator tube (preferred)	Reactive or Nonreactive	Specimens may be stored on or off the clot, red blood cells or separator gel. Room temperature ≤3 days, 2-8C ≤7 days, -10C or colder ≤30 days. This is an automatic reflex test for Syphilis Screen RPR reactive specimens.		X	X	X		In general, this is an automatic reflex test; however, the submitter may request the lab to add this test under certain conditions. For example, if the patient is pregnant or has documented exposure, this test may be added. Please call your servicing laboratory.	